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VOLTAGE CONTROLLED OSCILLATOR

ABSTRACT

[0072] The cathode of a first varactor diode (VD1) is connected to a resonator element (XD) of an oscillator (2)via a capacitor (C1) and is connected to a triangular wave generator circuit (3) via an inductor (RFC1) and a resistor element (R1), whereas the anode is connected to the cathode of a second varactor diode (VD2) via a capacitor (C2) and is grounded via an inductor (RFC3). The cathode of a zener diode (ZD1) is connected to a node of the inductor (RFC1) and the resistor element (R1), whereas the anode is grounded via a resistor element (R2). The cathode of the second varactor diode (VD2) is connected to a node of the zener diode (ZD1) and the resistor element (R2) via an inductor (RFC2), whereas the anode is grounded. In other embodiments, certain component(s) may be omitted and/or a fixed supply potential may be substituted for the ground potential.